

U.S. Serial Number: 09/553,107
Reply to Office Action of: 12/27/2007
Family Number/Docket Number: P1998J107D/GJH-0018

Page 2 of 13

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AMENDMENTS OF THE CLAIMS

This listing of the claims will replace all prior versions and listings of claims in the application.

1. (Currently Amended) A multi-stage process for reducing the level of sulfur in a distillate feedstock having a sulfur content greater than about 3,000 wppm, the distillate feedstock containing polynuclear aromatics, which process comprises ~~consists essentially of~~:

a) reacting said feedstream in a first hydrodesulfurization stage in the presence of a hydrogen-containing treat gas comprised of

i) the hydrogen-containing gas which is cascaded from the second hydrodesulfurization stage of d) below, and

ii) a hydrogen-containing gas which is supplied from a source other than the present multi-stage process,

said first hydrodesulfurization stage containing one or more reaction zones, each reaction zone operated at hydrodesulfurizing condition and in the presence of a hydrodesulfurization catalyst, thereby resulting in a liquid product stream having a sulfur content less than about 500 wppm;

b) passing the liquid product stream to a separation zone wherein a hydrogen-containing product gas stream and a liquid phase product stream are produced;

U.S. Serial Number: 09/553,107
Reply to Office Action of: 12/27/2007
Family Number/Docket Number: P1998J107D/GJH-0018

Page 3 of 13

c) passing the liquid phase stream to a second hydrodesulfurization stage;

d) reacting said liquid phase product stream in said second hydrodesulfurization stage in the presence of a hydrogen-containing treat gas, wherein the rate of introduction of the hydrogen portion of the treat gas in this second stage is less than or equal to 3 times the chemical hydrogen consumption in this second reaction stage, said second hydrodesulfurization stage containing one or more reaction zones operated at hydrodesulfurization conditions wherein each reaction zone contains a bed of hydrotreating catalyst, thereby resulting in a liquid product stream having less than about 100 wppm sulfur and having a weight ratio of aromatics to polynuclear aromatics of at least about 11; and

e) passing the liquid product stream of step d) above to a second separation zone wherein a hydrogen-containing product gas stream and a liquid phase product stream are produced.

2. (Original) The process of claim 1 wherein step d) is performed so that the liquid product stream contains less than about 50 wppm sulfur.

3. (Original) The process of claim 1 wherein step d) is performed so that the liquid product stream contains less than about 25 wppm sulfur.

4. (Original) The process of claim 1 wherein the catalyst of said first and second hydrodesulfurization stages are selected from catalysts comprised of at least one Group VI and at least one Group VIII metal on an inorganic refractory support.

5. (Previously Presented) The process of claim 4 wherein the Group VI metal is selected from Mo and W and the Group VIII metal is selected from Ni and Co.

U.S. Serial Number: 09/553,107
Reply to Office Action of: 12/27/2007
Family Number/Docket Number: P1998J107D/GJH-0018

Page 4 of 13

6. (Original) The process of claim 1 wherein at least a portion of the hydrogen-containing product gas stream from said first separation stage is recycled to said first hydrodesulfurization stage.

7. (Original) The process of claim 1 wherein all of the hydrogen-containing product gas stream from said second separation stage is recycled to said first hydrodesulfurization stage.

8. (Canceled)

9. (Previously Presented) The process of claim 7 wherein the rate of introduction of hydrogen contained in the treat gas in said second hydrodesulfurization stage is less than or equal to 2 times the chemical hydrogen consumption in said second hydrodesulfurization stage.

10. (Original) The process of claim 1 wherein said second hydrodesulfurization stage contains two or more reaction zones operated at different temperatures wherein at least one of said reaction zones is operated at least about 25°C lower in temperature than the other reaction zone or zones.

11. (Original) The process of claim 10 wherein said second hydrodesulfurization stage contains two or more different reaction zones operated at different temperatures wherein at least one of said reaction zones is operated at least about 50°C lower in temperature than the other reaction zone or zones.

12. (Original) The process of claim 10 wherein the last downstream reaction zone with respect to the flow of feedstock is the lower temperature reaction zone.

U.S. Serial Number: 09/553,107
Reply to Office Action of: 12/27/2007
Family Number/Docket Number: P1998J107D/GJH-0018

Page 5 of 13

13 – 15. (Canceled)

16. (Previously Presented) The process of claim 1 wherein a portion of the hydrogen-containing product gas stream from the second separation zone is conducted away from the process.

17. (Canceled)

18. (Original) The process of claim 1 wherein the hydrogen-containing treat gas provided to the second hydrodesulfurization stage is a once-through treat gas.

19. (Canceled)